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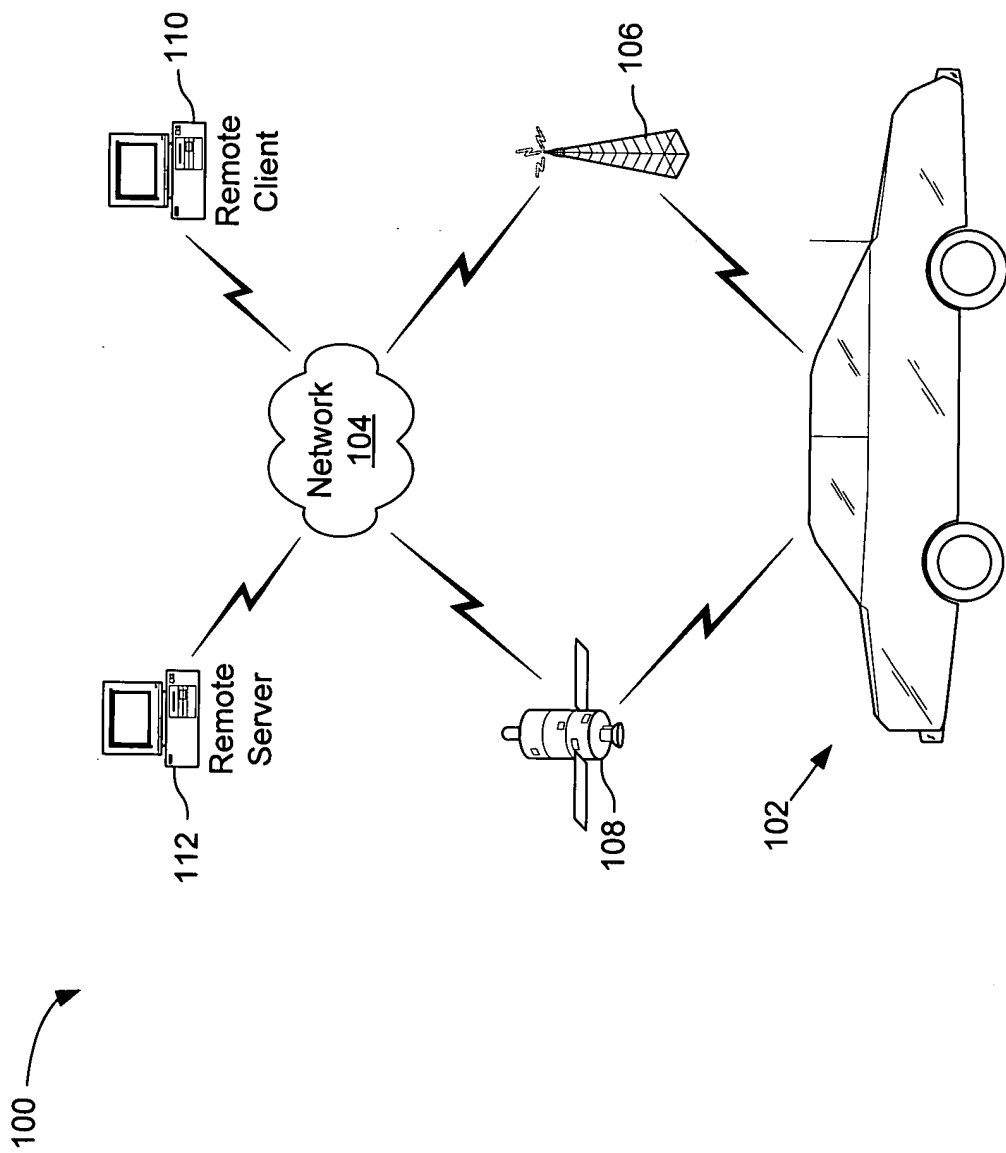
100

110

Remote
Client

Network
104

112

Remote
Server

106

108

102

FIG. 1

200

210

208

214

MEDIA
DEVICES

212

LOCAL
CLIENT

206

GPS

WEB
SERVER

202

204

OBDII

Fig. 2

User Profiles 322

Media 324

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OBDII Data 330

GPS/map Data 332

Video Storage 334

Other Storage 336

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WEB SERVER 304

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OBDII INTERFACE 312

GPS INTERFACE 314

VIDEO INTERFACE 316

OTHER INTERFACES 320

Vehicle Information Store 302

VEHICLE-BASED COMPUTER 300

CLIENT 338

OBDII SYSTEM 306

GPS 308

VIDEO SOURCE 310

OTHER VEHICLE SYSTEMS 318

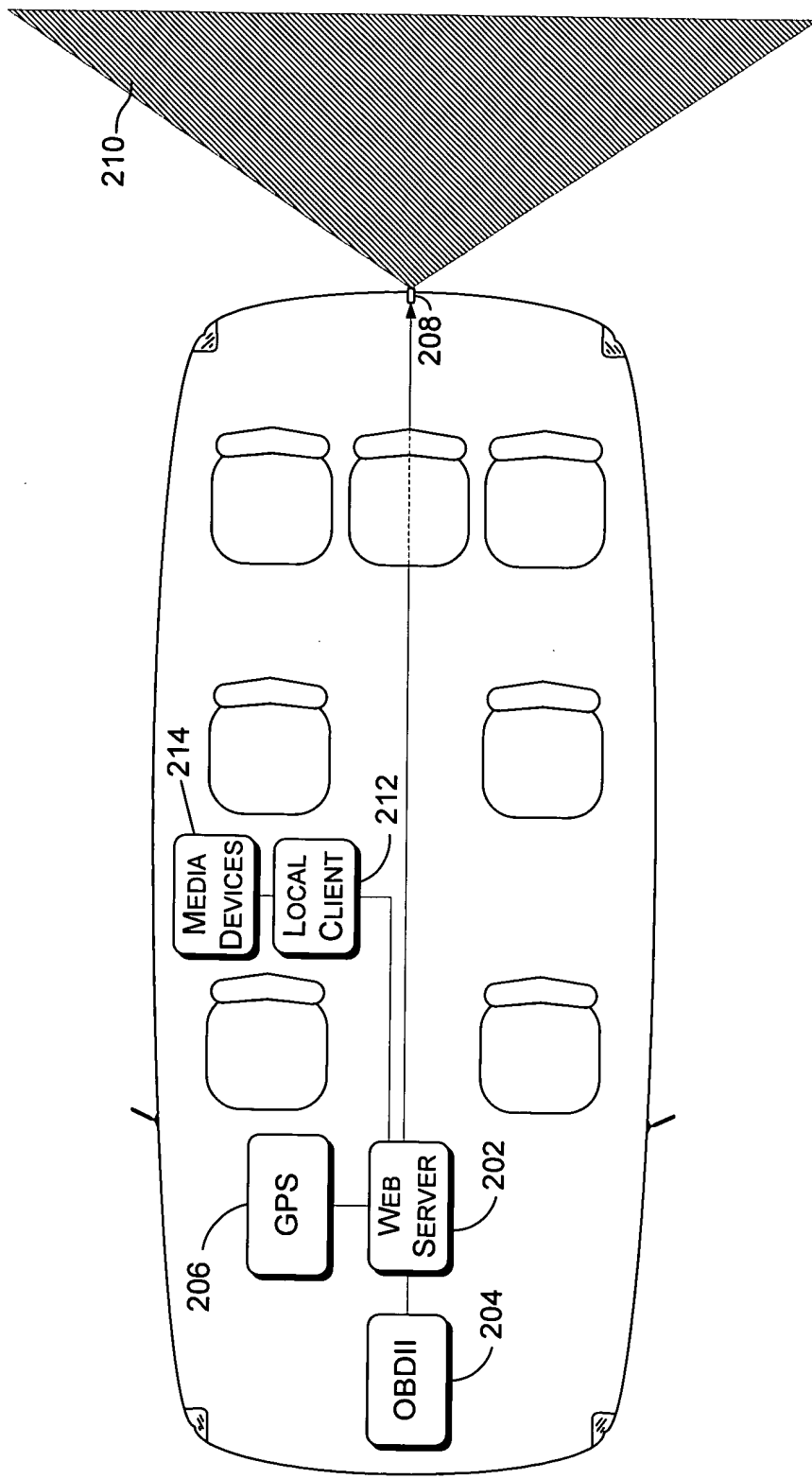*Fig. 3*

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VEHICLE DATA MANAGEMENT 420

OBDII Code	Time
P0534	9:56
P0534	9:57
P0534	9:58

410   412

● ● ●   ● ● ●

404

OBDII SYSTEM 402

Location	Time
34.05, -118.45	9:56
34.05, -118.45	9:57
34.06, -118.45	9:58

414   416

● ● ●   ● ● ●

408

GPS 406
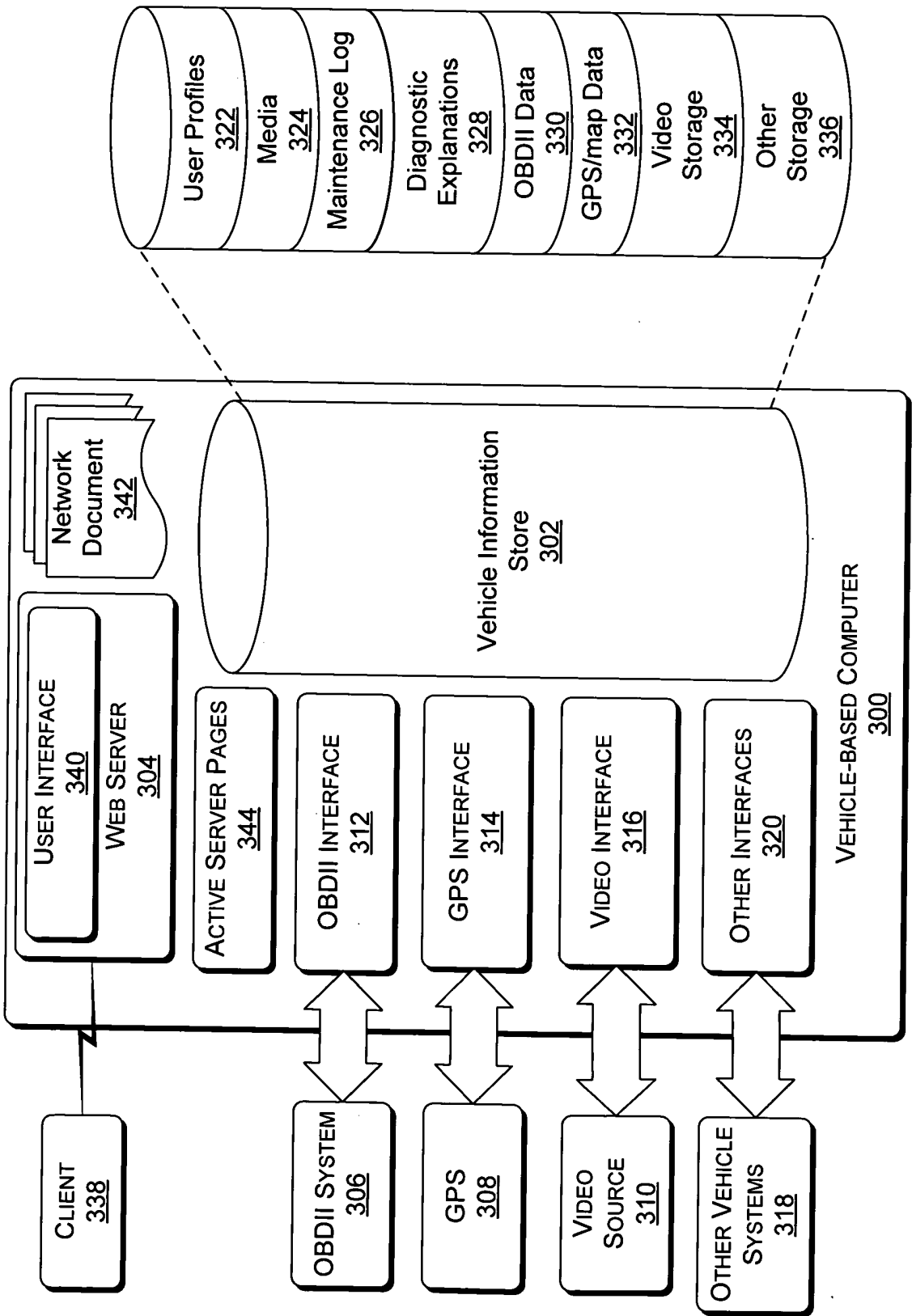
FIG. 4

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Internet Browser

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search

Address: http://www.myvehicle.com/diaghist.htm

| Route tracking — 502 | Media player — 504 | Map update — 506 | Diagnostic history — 508 | Profiles — 510 |

Last trip

512

Location	Diagnostic Event	Time
8th St, Anytown	ABS engaged	09:56
104th Ave, Anytown	RPM overrun	10:05
6th St, Anytown	Engine temp too high	10:10
108th Ave, Anytown	Ice possible	10:15
4th St, Anytown	Conditioner failure	10:25
Main St, Anytown	Conditioner failure	10:35
104th Ave, Anytown	ABS engaged	10:45

514

Done   My Computer

500

FIG. 5

600

602 — Receive network request
for vehicle system data

604 — Verify network request

606 — Retrieve and/or format
vehicle system data

608 — Generate network
document having
vehicle system data

610 — Encrypt network
document

612 — Provide network
document on network

$\mathcal{FIG. 6}$

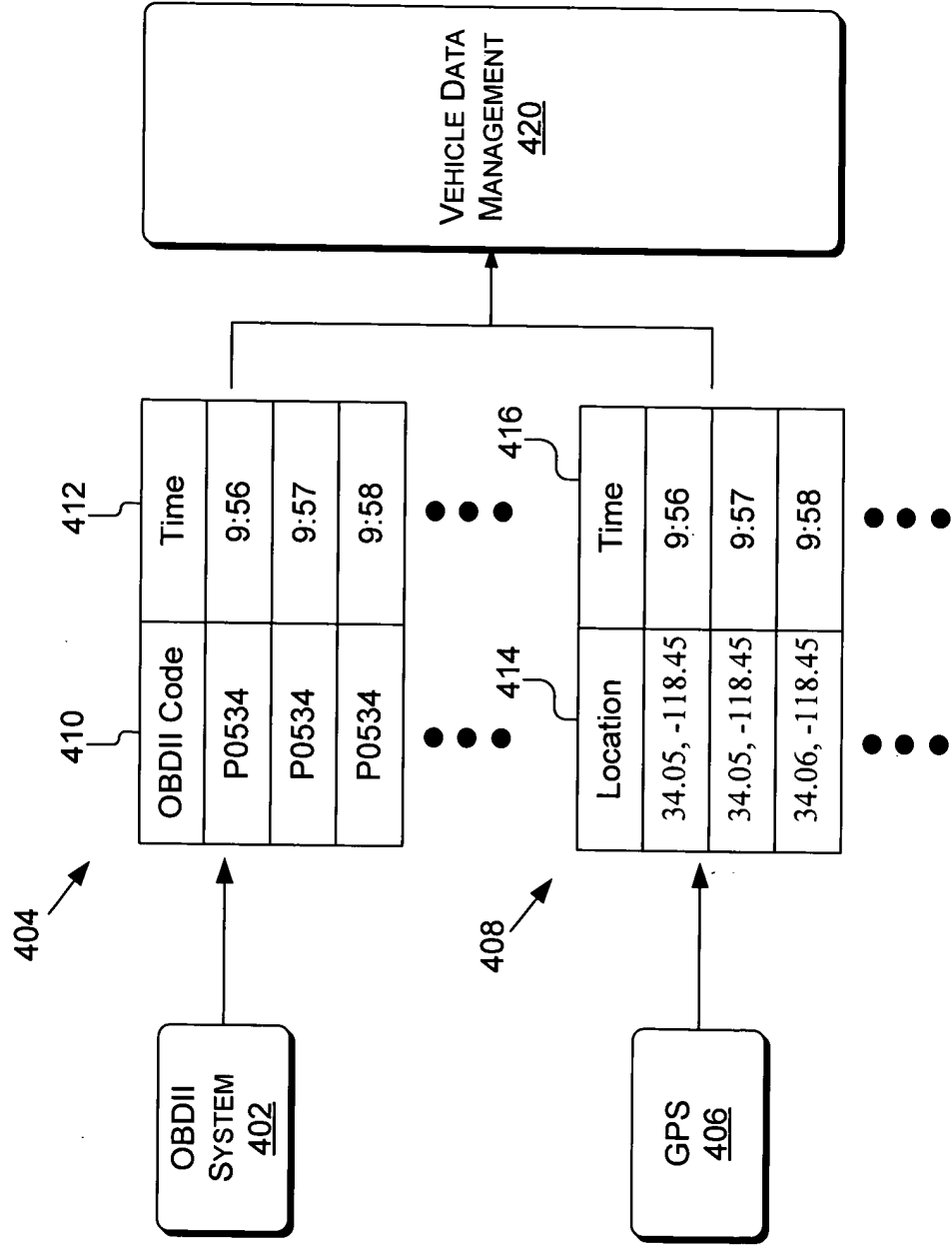MS1-1726US
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700

702 — Receive vehicle system
configuration data

704 — Distribute configuration data to
associated vehicle system/interface

706 — Configure associated vehicle
system/interface with vehicle
system configuration data

708 — Return

Fig. 7

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Fig. 8

820

830

832 PROCESSING UNIT

834

SYSTEM MEMORY 838

(ROM)

BIOS 842

840

(RAM)

OPERATING SYSTEM 858

APPLICATION PROGRAMS 860

OTHER PROGRAM MODULES 862

PROGRAM DATA 864

836

Bus

854 DATA MEDIA INTERFACES

844

848

846

850

852

870 USER INPUT INTERFACE

868

866 KEYBOARD

874 VIDEO ADAPTER

875 OUTPUT PERIPHERAL INTERFACE

872

886 NETWORK

LAN

WAN

877

880

882

879 WAN

889 REMOTE APPLICATIONS

OPERATING SYSTEM 858

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